

RECEIVED

NOV 06 2000

SEQUENCE LISTING

<110> Heller, Michael J.
Windhab, Norbert
Anderson, Richard R.
Ackley, Donald E.
Nova, Tina S.
Hoppe, Hans-Ullrich
Hamon, Christian



TECH CENTER 1600/2900

RECEIVED

OCT 30 2000

TECH CENTER 1600/2900

<120> MICROELECTRONIC MOLECULAR DESCRIPTOR ARRAY DEVICES, METHODS, PROCEDURES, AND FORMATS FOR COMBINATORIAL SELECTION OF INTERMOLECULAR LIGAND BINDING STRUCTURES AND FOR DRUG SCREENING

<130> Patrick Eagleman: Nanogen 241/172

<140> 09/374,338

<141> 1999-08-13

<160> 31

<170> PatentIn version 3.0

<210> 1

<211> 7

<212> DNA

<213> SYNTHETIC CONSTRUCT

<220>

<221> modified_base

<222> (1)..(7)

<223> Entire sequence is Pyranosyl RNA

<220>

<221> modified_base

<222> (1)..(1)

<223> Base 1 is tryptamine

<220>

<221> modified_base

<222> (7)..(7)

<223> Base 7 is modified with Texas Red

<400> 1

ngaaggg
7

<210> 2
<211> 14
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(14)
<223> Entire sequence is Pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is modified with Biotin

<220>
<221> modified_base
<222> (8)..(8)
<223> Base 8 is tryptamine

<400> 2
cccttctncc cccg
4

1

<210> 3
<211> 7
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(7)
<223> Entire sequence is Pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is modified with Cyanine-3 flourescent dye

<220>
<221> modified_base
<222> (7)..(7)
<223> Base 7 is tryptamine

<400> 3
cgggggn
7

<210> 4
<211> 7
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(7)
<223> Entire sequence is Pyranosyl RNA

<220>
<221> modified_base
<222> (3)..(3)
<223> Base 3 is tryptamine

<220>
<221> modified_base
<222> (4)..(4)
<223> Base 4 is tryptamine

<220>
<221> modified_base
<222> (5)..(5)
<223> Base 5 is tryptamine

<400> 4
ccnnngg
7

<210> 5
<211> 7
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(7)
<223> Entire sequence is Pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 modified with Fluorophore

<220>
<221> modified_base
<222> (7)..(7)
<223> Base 7 modified with a Peptide

<220>
<221> modified_base
<222> (7)..(7)
<223> Base 7 is tryptamine

<400> 5
cggggggn
7

<210> 6
<211> 8
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(8)
<223> Entire sequence is Pyranosyl RNA

<220>
<221> modified_base

<222> (1)..(1)
<223> Base 1 modified with a Peptide

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is tryptamine

<220>
<221> modified_base
<222> (8)..(8)
<223> Base 8 is any nucleotide

<400> 6
ngaagggn
8

<210> 7
<211> 14
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(14)
<223> Entire sequence is Pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 modified with Biotin

<220>
<221> modified_base
<222> (7)..(7)
<223> Base 7 is tryptamine

<220>
<221> modified_base
<222> (7)..(8)

<223> Base between 7 and 8 is modified with a Peptide

<400> 7
cccttctntcc cccg
4

1

<210> 8
<211> 6
<212> PRT
<213> SYNTHETIC CONSTRUCT

<220>
<221> PEPTIDE
<222> (1)..(1)
<223> 1st amino acid is modified with pyranosyl RNA

<400> 8

Cys Leu Ser Leu Glu Gly
1 5

<210> 9
<211> 6
<212> PRT
<213> SYNTHETIC CONSTRUCT

<220>
<221> PEPTIDE
<222> (1)..(1)
<223> 1st amino acid is modified with pyranosyl RNA

<400> 9

Cys Ser Leu Glu Ser Gly
1 5

<210> 10
<211> 6
<212> PRT
<213> SYNTHETIC CONSTRUCT

<220>
<221> PEPTIDE

<222> (1)..(1)
<223> 1st amino acid is modified with pyranosyl RNA

<400> 10

Cys Leu Leu Ser Glu Gly
1 5

<210> 11
<211> 6
<212> PRT
<213> SYNTHETIC CONSTRUCT

<220>
<221> PEPTIDE
<222> (1)..(1)
<223> 1st amino acid is modified with pyranosyl RNA

<400> 11

Cys Ser Arg Ser Arg Gly
1 5

<210> 12
<211> 6
<212> PRT
<213> SYNTHETIC CONSTRUCT

<220>
<221> PEPTIDE
<222> (1)..(1)
<223> 1st amino acid is modified with pyranosyl RNA

<400> 12

Cys Ser Arg His Arg Gly
1 5

<210> 13
<211> 6
<212> PRT
<213> SYNTHETIC CONSTRUCT

<220>

<221> PEPTIDE
 <222> (1)..(1)
 <223> 1st amino acid is pyranosyl RNA

<400> 13

Cys His Arg Tyr Arg Gly
 1 5

<210> 14
 <211> 6
 <212> DNA
 <213> SYNTHETIC CONSTRUCT

<220>
 <221> modified_base
 <222> (1)..(6)
 <223> Entire sequence is pyranosyl RNA

<400> 14
 cccggg
 6

<210> 15
 <211> 7
 <212> DNA
 <213> SYNTHETIC CONSTRUCT

<220>
 <221> modified_base
 <222> (1)..(7)
 <223> Entire sequence is pyranosyl RNA

<220>
 <221> modified_base
 <222> (4)..(4)
 <223> Base 4 is tryptamine

<400> 15
 cccnggg
 7

<210> 16
<211> 8
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> Modified_base
<222> (1)..(8)
<223> Entire sequence is pyranosyl RNA

<220>
<221> Modified_base
<222> (4)..(4)
<223> Base 4 is tryptamine

<220>
<221> Modified_base
<222> (5)..(5)
<223> Base 5 is tryptamine

<400> 16
cccnnggg
8

<210> 17
<211> 8
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(8)
<223> Entire sequence is pyranosyl RNA

<220>
<221> modified_base
<222> (3)..(3)
<223> Base 3 is tryptamine

<220>

<221> modified_base
<222> (6)..(6)
<223> Base 6 is tryptamine

<400> 17
ccncgngg
8

<210> 18
<211> 7
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(7)
<223> Entire sequence is pyranosyl RNA

<220>
<221> modified_base
<222> (2)..(2)
<223> Base 2 is tryptamine

<220>
<221> modified_base
<222> (4)..(4)
<223> Base 4 is tryptamine

<220>
<221> modified_base
<222> (6)..(6)
<223> Base 6 is tryptamine

<400> 18
cncngng
7

<210> 19
<211> 8
<212> DNA

<213> SYNTHETIC CONSTRUCT

<220>

<221> modified_base

<222> (1)..(8)

<223> Entire sequence is pyranosyl RNA

<220>

<221> modified_base

<222> (4)..(4)

<223> Base 4 is tryptamine

<220>

<221> modified_base

<222> (5)..(5)

<223> Base 5 is tryptamine

<220>

<221> modified_base

<222> (4)..(5)

<223> Base 4 and 5 is modified by thioester linkage to Seq. ID No. 20

<400> 19

cccnnggg

8

<210> 20

<211> 6

<212> PRT

<213> SYNTHETIC CONSTRUCT

<400> 20

Cys Phe Pro Tyr Trp Gly

1

5

<210> 21

<211> 6

<212> DNA

<213> SYNTHETIC CONSTRUCT

<220>

<221> modified_base
<222> (1)..(6)
<223> Entire sequence is pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is tryptamine

<400> 21
ngaagg
6

<210> 22
<211> 6
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(6)
<223> Entire sequence is pyranosyl RNA

<220>
<221> modified_base
<222> (6)..(6)
<223> Base 6 is tryptamine

<400> 22
gggggn
6

<210> 23
<211> 11
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(11)
<223> Entire sequence is pyranosyl RNA

<220>
 <221> modified_base
 <222> (6)..(6)
 <223> Base 6 is tryptamine

<400> 23
 ccttcncccc c
 1

1

<210> 24
 <211> 6
 <212> PRT
 <213> SYNTHETIC CONSTRUCT

<400> 24

Cys His His His His Gly
 1 5

<210> 25
 <211> 6
 <212> PRT
 <213> SYNTHETIC CONSTRUCT

<400> 25

Cys Phe Pro Ser Phe Gly
 1 5

<210> 26
 <211> 7
 <212> DNA
 <213> SYNTHETIC CONSTRUCT

<220>
 <221> modified_base
 <222> (1)..(7)
 <223> Entire sequence is pyranosyl RNA

<220>
 <221> modified_base
 <222> (7)..(7)

<223> Base 7 is modified with Cyanine3

<220>

<221> modified_base

<222> (7)..(7)

<223> Base 7 is tryptamine

<400> 26

cgggggn

7

<210> 27

<211> 11

<212> DNA

<213> SYNTHETIC CONSTRUCT

<220>

<221> modified_base

<222> (1)..(11)

<223> Entire sequence is pyranosyl RNA

<220>

<221> modified_base

<222> (1)..(1)

<223> Base 1 is modified with Biotin

<220>

<221> modified_base

<222> (6)..(6)

<223> Base 6 is tryptamine

<400> 27

ccttcncccc c

1

1

<210> 28

<211> 9

<212> DNA

<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(9)
<223> Entire sequence is pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is tryptamine

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is modified with Biotin

<400> 28
ngggaaggg
9

<210> 29
<211> 8
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(8)
<223> Entire sequence is pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is modified with Biotin

<400> 29
cccttccc
8

<210> 30
<211> 8

<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(8)
<223> Entire sequence is pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is modified with Biotin

<220>
<221> modified_base
<222> (7)..(7)
<223> Base 7 is tryptamine

<400> 30
taggcant
8

<210> 31
<211> 8
<212> DNA
<213> SYNTHETIC CONSTRUCT

<220>
<221> modified_base
<222> (1)..(8)
<223> Entire sequence is pyranosyl RNA

<220>
<221> modified_base
<222> (1)..(1)
<223> Base 1 is modified with Biotin

<220>
<221> modified_base
<222> (2)..(2)
<223> Base 2 is tryptamine

<400> 31
antgccta
8
